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Agilent Technologies

BA-550 Tube Replacement Procedure

(Formerly Mini-BA)

699908207
Rev B
March 2009

BA-550 Tube Replacement Procedure

The following tools are required:

- 3/32 Allen wrench
- Needle nose pliers

To replace the BA-550 tube:

1. Remove three socket head screws, washers and lock washers from the case front and save for reuse.

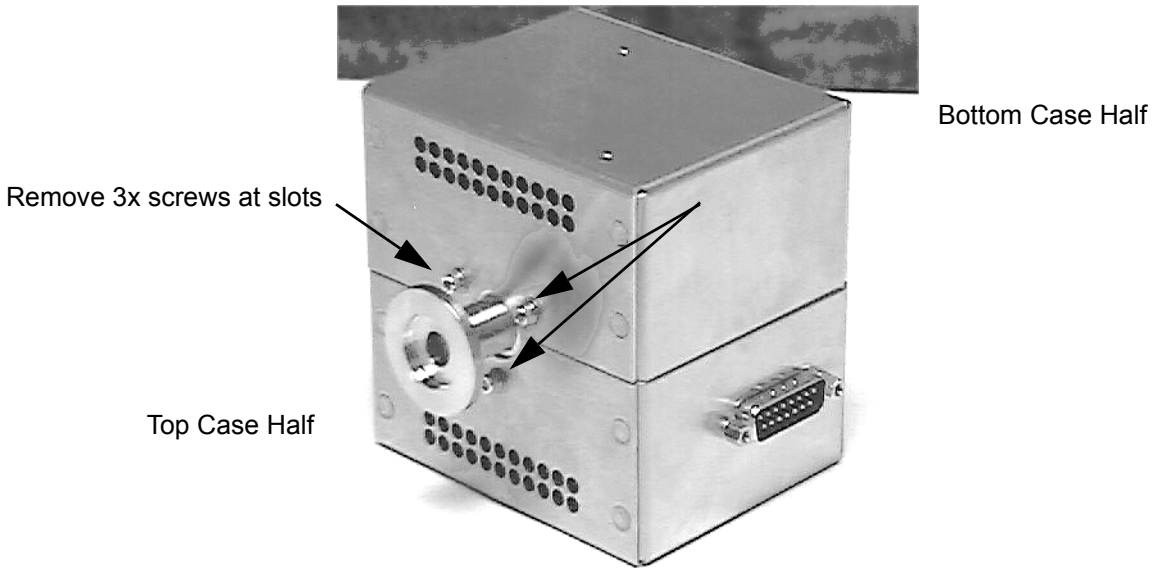

Figure 1-1 Loosen Three Socket Head Screws on Case Front

2. Loosen the two socket head screws, washers and lock washers on the back and save for reuse.

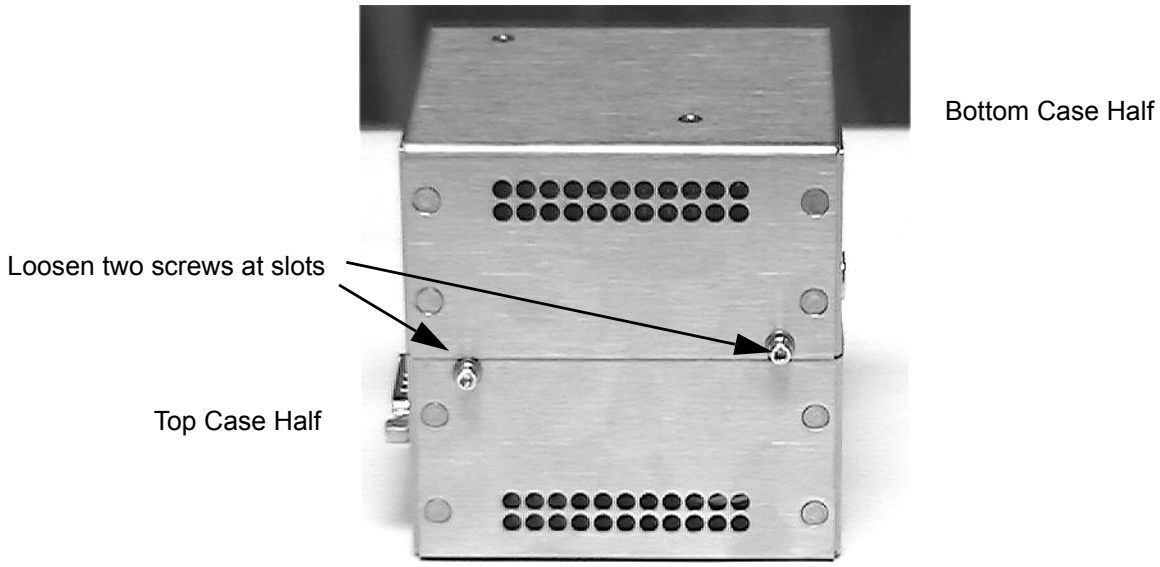

Figure 1-2 Loosen Two Socket Head Screws on Case Rear

3. Remove the top half of the case assembly and place next to the bottom case half assembly.

NOTE

The length of the white wire restricts the separation distance of the two halves. Take care when opening the box not to damage the wire or its connection.

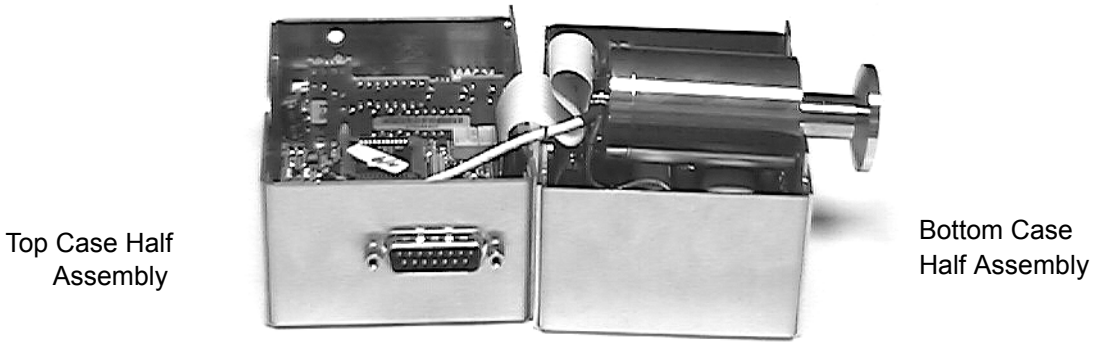

Figure 1-3 Removal and Placement of Top Half Case Assembly

4. Use needle nose pliers to remove the white gauge tube connections to the top half case PCB board.

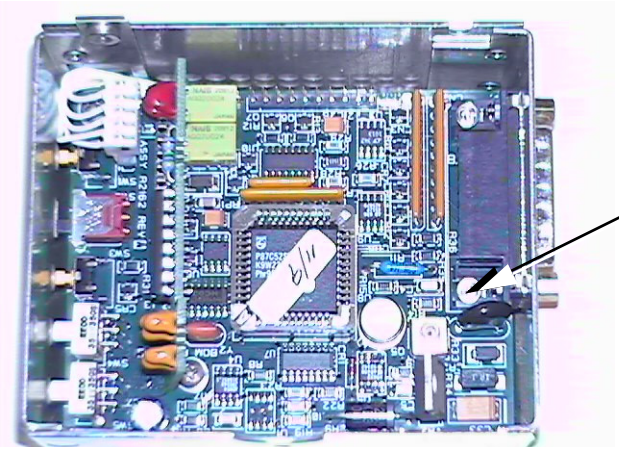

Figure 1-4 Pin Locations for Top Half Case PCB

5. Use needle nose pliers to remove the red, black and green gauge tube connections to the bottom half case PCB board.

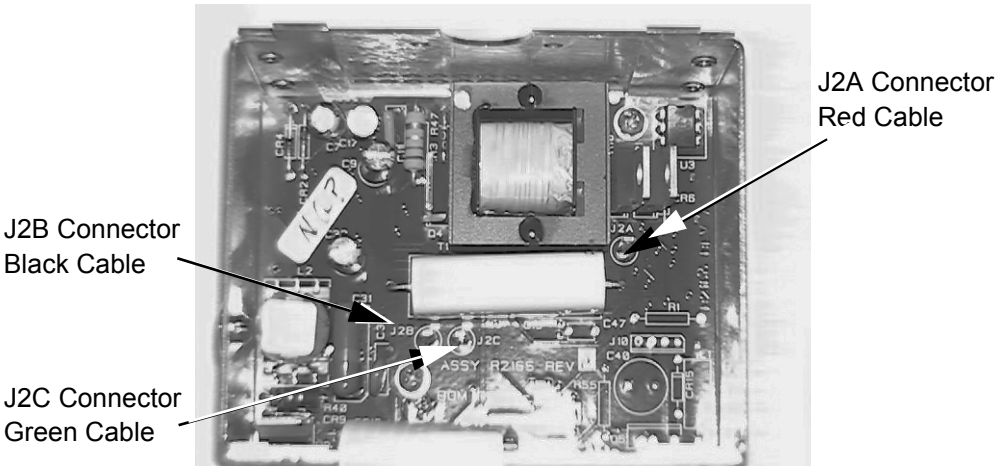

Figure 1-5 Pin Locations for Bottom Half Case PCB

6. Raise and remove tube from lower box half. Discard old tube and wires.
7. Using the new gauge tube assembly and wires, plug the tube pins into the PCBs and slowly lower the top case back onto the bottom case.

CAUTION

Do not bend/stress pins during re-assembly. Note proper alignment of tube pins/ receptacles while re-inserting tube and make sure tube pins are fully engaged in small PCB receptacles.

8. Re-install the two socket head cap screws, washers and lockwashers (see Figure 1-2 on page 2) and loosely tighten.
9. Align the tube assembly holes with the front cover holes, insert the socket screws and washers (see Figure 1-1 on page 1) and loosely tighten.
10. Tighten all five socket head screws.

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